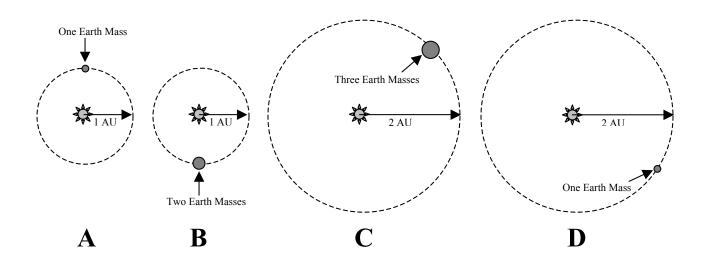
Astronomy Ranking Task: Kepler's Laws - Orbital Motion

Exercise #5

Description: The figure below shows four identical one solar mass stars, and four planets (A – D) of different masses in circular orbits of various sizes. In each case the mass of the planet is given in Earth masses and the orbital distance is given in Astronomical Units (AU). Note that the sizes of the stars and planets, and the orbital distances have not been drawn to scale.



Ranking Instruct	tions: Rank the	e orbita	l perio	ds (from	longest to sho	ortest) of the planets $(A - D)$
Ranking Order:	Longest 1_	_ 2	_3_	4	Shortest	
Or, the orbital per mark).	iods of the pla	nets wo	uld all	be the s	ame	_ (indicate with check
Carefully explair	your reasonir	ng for ra	nking	this way	<i>/</i> :	